

AMENDMENTS TO THE SPECIFICATION:

Please amend the caption on page 1, line 5, as follows:

BACKGROUND OF THE INVENTION

I. Technical Field

Please insert the following caption on page 1, between lines 9 and 10:

II. Related Art and Other Considerations

Please amend the caption on page 2, line 1, as follows:

BRIEF SUMMARY OF THE INVENTION

Please paragraph [0005] beginning on page 2, line 5, and continuing to page 3, line 9, as follows:

[0005] In order to achieve the above object, a power transmission device according to the present invention an example embodiment includes:
a pulley to which a rotational power is transmitted via a belt;
a motor having a rotor;
a shaft to which a rotational power of the pulley and a rotational power of the rotor are transmitted;
a first one-way clutch including an inner ring, an outer ring, and engagement members disposed between the inner ring and the outer ring, the first one-way clutch transmitting the rotational power of the pulley to the shaft when a rotational speed of the pulley is relatively higher than that of the rotating shaft; and

a second one-way clutch including an inner ring, an outer ring, and engagement members disposed between the inner ring and the outer ring, the second one-way clutch transmitting the rotational power of the rotor to the shaft when the rotational speed of the rotor is relatively higher than that of the shaft,

wherein, in the second one-way clutch,

the inner ring has an engagement cylindrical surface in an outer periphery thereof and is rotatable together with the shaft;

the outer ring has an engagement cam-surface in an inner periphery thereof and is rotatable together with the rotor; and

the engagement members are engagement rollers disposed between the engagement cylindrical surface of the inner ring and the engagement cam-surface of the outer ring.

Please amend paragraphs [0006] -[0007] beginning on page 3, line 10, and continuing to page 5, line 22, as follows:

[0006] Suppose, for example, that, in the power transmission device with the above construction, the outer ring of the first one-way clutch is connected to the pulley driven by an engine, that the outer ring of the second one-way clutch is connected to the rotor of the motor, and that the inner ring of the first one-way clutch and the inner ring of the second one-way clutch are connected to a rotating shaft of a compressor. Then, while the engine is operating, the rotational power of the pulley driven by the engine is transmitted to the rotating shaft of the compressor via the outer ring, engagement members and inner ring of the first one-way clutch, so that the rotating shaft of the compressor is rotated by the engine. During the operation of the engine, the second one-way clutch is in a disengaged state, and the inner ring of the second one-way clutch freely rotates. On the other hand, while the engine is not operating, the motor is driven so that a rotational power of the rotor of the motor is transmitted to the rotating

shaft of the compressor via the outer ring, engagement members and inner ring of the second one-way clutch, whereby the rotating shaft of the compressor is rotated by the motor. While the engine is not operating, the first one-way clutch is in a disengaged state, and the inner ring of the first one-way clutch freely rotates or idles. In this way, the power transmission device of the present invention is able to drive the rotating shaft of the compressor by the first and second one-way clutches both while the engine is operating and while the engine is not operating. Therefore, no electromagnetic clutch or control part therefor is required. This enables the power transmission device to be simple in structure and compact.

[0007] According to an example embodiment of the power transmission device of the present invention, the second one-way clutch is made as a so-called outer cam type one-way clutch in which the engagement cam-surface is formed at the inner periphery of the outer ring and the engagement cylindrical surface is formed at the outer periphery of the inner ring. Thus, a radius of the engagement cylindrical surface of the second one-way clutch is reduced, as compared with the case where the second one-way clutch is made as a so-called inner cam type one-way clutch in which the engagement cam-surface is formed at the outer periphery of the inner ring, and the engagement cylindrical surface is formed at the inner periphery of the outer ring. That is, when the second one-way clutch is in a disengaged state, and the engagement rollers are thus in an idling state, a relative circumferential speed between the engagement cylindrical surface of the second one-way clutch and the engagement rollers, which speed is proportional to the above-mentioned radius, can be reduced by decreasing the radius. During the time in which the engine is operating, in most of which time the rotational speed of the pulley is relatively higher than that of the rotating shaft, the engagement rollers are in a sliding state on the engagement cylindrical surface. Therefore, reducing the relative circumferential speed of the engagement cylindrical surface of the second one-way clutch with respect to the engagement rollers, as mentioned above, contributes to the reduction

of the heat release value due to friction between the engagement cylindrical surface and the engagement rollers. Consequently, the lifetime of grease sealed in between the outer ring and inner ring of the second one-way clutch can be prolonged.

Please amend paragraph [0014] beginning on page 9, line 7, and continuing to page 9, line 9, as follows:

[0014] Fig. 1 is a cross section in an axial direction of one example embodiment of the power transmission device of the present invention;

Please amend paragraph [0018] beginning on page 9, line 20, and continuing to page 10, line 2, as follows:

[0018] Fig. 1 is a cross section in an axial direction of one an example embodiment of the power transmission device of the invention. The power transmission device includes a pulley 3, a first power-transmitting member 4, a first one-way clutch 1, a motor 10, a rotor 11, a second one-way clutch 2 and a rotating shaft 6 that is one example of a shaft to drive a compressor.